ENVIRONMENTAL CHEMISTS

Date of Report: December 4, 1995 Date Received: November 28, 1995 Project: Metro Grab, PO #M71085

Date Samples Extracted: November 29, 1995 Date Extracts Analyzed: November 29, 1995

RESULTS FROM THE ANALYSIS OF THE PROCESS WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL AND ZINC Samples Processed Using Method 3005

Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	Zinc
M71085	1.2	0.95	0.66	0.08
Method Blank	< 0.05	<0.05	<0.05	< 0.05

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QUALITY ASSURANCE RESULTS FOR CHROMIUM, COPPER, NICKEL AND ZINC Samples Processed Using Method 3005

Laboratory Code: KJ64243DU

	Reporting	Sample	Duplicate	Relative Percent	Acceptance
Analyte:	Units	Result	Result	Difference	Criteria
Chromiun	n mg/L (ppm)	0.53	0.49	8	0-20
Copper	mg/L (ppm)	1.8	2.2	10	0-20
Nickel	mg/L (ppm)	5.0	4.1	20	0-20
Zinc	mg/L (ppm)	<0.05	< 0.05	nm	0-20

Laboratory Code: KJ64243MS/KJ64243MD

	Reporting	Spike	Sample	% Reco	verv	Acceptance	Relative Percent
Analyte:	Units	Level	Result	MS	MŠD	Criteria	Difference
	i stali (2) a razstáv.						
Chromium	mg/L (ppm)	ð	0.53	93	93	80-120	. 0
Copper	mg/L (ppm)	5	1.8	119	112	80-120	6
Nickel	mg/L (ppm)	10	5.0	83	86	80-120	4
Zinc	mg/L (ppm)	5	< 0.05	111	120	80-120	8

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS	Acceptance <u>Criteria</u>
		(a. 73.45		
Chromium	mg/L (ppm)	5	91	80-120
Copper	mg/L (ppm)	5	111	80-120
Nickel	mg/L (ppm)	10	82	80-120
Zinc	mg/L (ppm)	5	106	80-120

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282 SAMPLE CHAIN OF CUSTODY Send Report To oppose Works renold Company_ Address_ City, State, Zip ScAttle.
Phone # (Zoo) 382-98134 Date_ PROJECT NAME PURCHASE ORDER # 7-278 GRAD MERTO 71085 SAMPLERS (signature) PROJECT LOCATION 3200 6th Aves REMARKS SAMPLE DISPOSAL INFORMATION Dispose after 30 days Return Samples Call for Instructions Date/Time Type of # of Lab Analyses Sample # Sampled Sample Sample # Jars Requested m 7/085 11:15 1420 Cn CU Ni 2~ SIGNATURE PRINT NAME COMPANY Time Date · C. W. 12:16 11-28-95 11-28-95 12:16 Relinquished by: Received by:

FORMS/COC

09/19/94

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282

3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

December 4, 1995

Gerry Thompson, Project Leader Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on November 28, 1995 from your Metro Grab, PO #M71085 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kurt Johnson

Chemist

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Enclosures

FAX: 382-7335 ACU1204R.DOC

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3012 16th Avenue West Seattle, WA 98119-2029 FAX: (206) 283-5044

December 4, 1995

INVOICE # 95ACU1204-1 DUPLICATE COPY

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Grab, PO #M71085: Results of testing requested by Gerry Thompson, Project Leader for material submitted on November 28, 1995.